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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/553,330	02/13/2007	Colin Dickens	16873-51845	2084
24728 7590 08/21/2008 MORRIS MANNING MARTIN LLP			EXAMINER	
3343 PEACHTREE ROAD, NE			OSINSKI, BRADLEY JAMES	
ATLANTA, G	FA FINANCIAL CENT A 30326	ER	ART UNIT	PAPER NUMBER
,			3767	
			MAIL DATE	DELIVERY MODE
			08/21/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/553,330	DICKENS ET AL.	
Examiner	Art Unit	
BRADLEY J. OSINSKI	3767	

	BRADLEY J. OSINSKI	3767			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address					
Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. Extensions of time may be available under the provisions of 37 CFR 1.38(a). In no event, however, may a reply be timely filed safes (S), 60 MONTH's from the mailing date of the communication. I NO period for reply is specified above, the maximum statutory period wit apply and will expire SIX (6) MONTH's from the mailing date of this communication. Faulter to reply within the set or dended period for reply will by shatter, cause the application to become ARADONDED (38 U.S.C, § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earend painter term adjustment. See 37 CFR 1.70(a)					
Status					
T)⊠ Responsive to communication(s) filed on <u>13 Fe</u> Za)□ This action is FINAL . ∑D)⊠ This Since this application is in condition for allowan closed in accordance with the practice under E	action is non-final. ace except for formal matters, pro		e merits is		
Disposition of Claims					
Al Claim(s) 1-30 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) claim(s) is/are allowed. 6) Claim(s) 1-30 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or					
Application Papers					
9) ☐ The specification is objected to by the Examiner. 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a), Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119					
12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☒ All b) ☐ Some * c) ☐ None of: 1.☒ Certified copies of the priority documents have been received. 2.☐ Certified copies of the priority documents have been received in Application No 3.☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s)					
Notice of References Cited (PTO-892)	4) Interview Summary	(PTO-413)			

- Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO/S5/08) Paper No(s)/Mail Date 10-14-2005.

D (4	Interview Summary (PTO-413
_	Paper No(s)/Mail Date

5) Notice of Informal Patent Application
6) Other:

Page 2

Application/Control Number: 10/553,330

Art Unit: 3767

DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

1. Claims 17-21 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. It is unclear what the "Defined size" is attempting to claim.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 17-21 recites the limitation "the defined size" in claim 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be neadived by the manner in which the invention was made. Application/Control Number: 10/553,330 Page 3

Art Unit: 3767

 Claims 1-27 and 30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Djupesland (2004/0112378) in view of Mishelevich et al (5,363,842).

- a. Regarding claims 1 and 27, Djupesland discloses a nasal device in paragraph 211 to release an aerosol to the nasal turbinates past the nasal valve. In paragraph 210 a substantially gas-tight seal is disclosed. Paragraph 204 discloses an aerosol containing medicament. However, while Djupesland substantially discloses the method as claimed, it does not disclose preventing further gas flow for a time period to allow the particles to settle on the tissue. Mishelvevich et al discloses an aerosol inhaler in which the patient holds his or her breath for 10 seconds to allow smaller particles to settle. (Col.2 lines 20-29). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have a patient utilizing the device of Djupesland hold his/her breathe for 10 seconds to allow smaller particles to settle.
- Regarding claim 2, Djupesland discloses aerodynamic diameters of about
 microns being deposited in the nasal passageway (Paragraph 2)
- c. Regarding claims 3, 22-26 and 30, While Djupesland substantially discloses the method as claimed such as delivering medication to the turbinate region, it does not disclose delivery volumes. Mishelevich et al discloses low inhalation rates below one liter per second to minimize loss of medicine through impact with various tissues, but does not disclose a delivery time. However, it would have been obvious to one having ordinary skill in the art at the time the invention was made to determine the volume of the turbinate region and nasal

Application/Control Number: 10/553,330 Page 4

Art Unit: 3767

vestibule and deliver an appropriate amount, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. *In re Aller, 105 USPQ 233 (CCPA 1955).*

- Regarding claim 4, See paragraphs 210 and 211 of Djupesland which disclose sealing the nostril.
- Regarding claims 5-9, see claim 1 above, Mishelevich et al teaches holding ones breathe up to 10 seconds. (Col.2 lines 28-29)
- f. Regarding claims 10-15, See claims 1 and 2 above, Mishelevich teaches holding ones breathe up to 10 seconds and Djupesland discloses an 8 micron diameter.
- g. Regarding claims 16-21, Djupesland discloses the claimed invention except for the mass percent of active material. It would have been obvious to one having ordinary skill in the art at the time the invention was made to vary the weight percentages of the various particles in the gas, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art. In re Aller, 105 USPQ 233 (CCPA 1955).
- Claims 28 and 29 rejected under 35 U.S.C. 103(a) as being unpatentable over Djupesland (2004/0112378) in view of Ruskewicz (5,971,951) and Mishelevich et al (5,363,842).

Page 5

Application/Control Number: 10/553,330

Art Unit: 3767

h. Regarding claims 28 and 29, while Djupesland substantially discloses the apparatus as claimed (see claims 1 and 2 above), it does not disclose means for indicating when a predetermined time period has elapsed after actuation of the delivery means or means for determining when a volume of gas has passed through the nozzle. However, Ruskewicz discloses a microprocessor for aerosol devices that discloses both audible and visual displays. The audible display activates if the patient has not delivered the full amount of medication (Col. 36 lines 50-52) and a visual display after a predetermined dose has been delivered (Col. 36 lines 47-49). Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to include audio and visual alerts as taught by Ruckewicz to the device of Djupesland to warn a patient when to take his or her medications and when the medication has been fully administered.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to BRADLEY J. OSINSKI whose telephone number is (571)270-3640. The examiner can normally be reached on M-Th 8AM-5PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kevin Sirmons can be reached on (571)272-4965. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Application/Control Number: 10/553,330 Page 6

Art Unit: 3767

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Bradley J Osinski/ Examiner, Art Unit 3767 /Kevin C. Sirmons/ Supervisory Patent Examiner, Art Unit 3767